A Workshop of the National Science and Technology Council (NSTC) Interagency Working Group (IWG) on Manufacturing Research and Development (R&D)

Holiday Inn, Gaithersburg October 17-19, 2006

anomanufacturing is the essential bridge between the discoveries of nanoscience and real world nanotech products - it is the vehicle by which the Nation will realize the promise of major technological innovation across a spectrum of products that will affect virtually every industrial sector. For nanotech products to achieve the broad impacts envisioned, they must be manufactured in market-appropriate quantities in a reliable, repeatable, and commercially viable manner. In addition, they must be manufactured so that environmental and human health concerns are met, worker safety issues are appropriately assessed and handled, and liability issues are addressed. Critical to this realization of robust nanomanufacturing is the development of the necessary instrumentation, metrology, and standards. This will allow the physical dimensions, properties, functionality, and purity of the materials, processes, tools, systems, products, and emissions that will constitute nanomanufacturing to be measured and characterized. This will in turn enable production to be scaleable, controllable, predictable, and repeatable to meet market needs. If a product cannot be measured it cannot be manufactured.

If you have any questions or problems registering, please contact workshop organizers:
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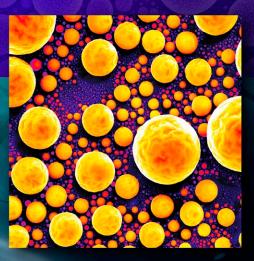
Mr.. Kevin Lyons, Program Director National Science Foundation Division of Design and Manufacturing Innovation (DMI), Arlington VA Ph: (703) 292-5365, email: klyons@nsf.gov

Sponsored by:

The National Institute of Standards and Technology (NIST), the National Science Foundation (NSF), and the Office of Naval Research (ONR)

In Collaboration with:

The NSTC Subcommittee on Nanoscale Science, Engineering, and Technology (NSET), Maryland Department of Business and Economic Development, Ben Franklin Technology Partners (Pennsylvania), and the Northern Virginia Technology Council Instrumentation,
Metrology,
and
Standards
for
Nanomanufacturing



Holiday Inn Gaithersburg, MD

October 17-19, 2006

National Institute of Standards and Technology Technology Administration U.S. Department of Commerce his workshop will bring together experts in instrumentation, metrology, computational methods, and manufacturing processes, as well as those who depend on accurate measurements, to discuss and document progress

made to date in these various areas, especially focusing on advancements since the January 2004 NNI Grand Challenge workshop on Instrumentation and Metrology (report now available at: www.nano.gov).

The workshop will focus on the identification of technical

challenges that need to be undertaken as

well as the directions the community feels it

recommendations will be identified will be

compiled from discussions at the workshop.

needs to take going forward. A set of research

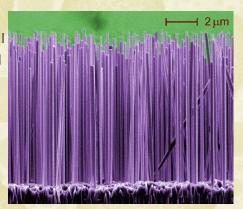
he workshop is scheduled for two and onehalf days. The first day and a half is devoted to plenary talks from representatives of various industrial nanomanufacturers. The remainder of the time is devoted to facilitated break-out sessions for practical technical discussions and documentation of current and emerging needs and solutions. It is expected that all registrants will actively participate in the breakout sessions. he Workshop will meet at the Gaithersburg Holiday Inn on October 17-19, 2006. Outside of invited plenary presentations by industrial representatives, most of the time will be dedicated to group discussion, providing the attendees the opportunity to share thoughts with each other.

The Registration Deadline is: October 1, 2006

here is no registration fee for the Workshop. However, attendance will be capped at 200 people maximum. Pre-registration is required by NIST Security for entry onto the NIST campus for the reception. This rule is strictly enforced. A web form has been implemented to streamline the process. This form is accessible through the Nanomanufacturing Workshop web page at: www.mel.nist.gov/nano.htm

By registering you are agreeing to actively participate in the breakout sessions.

After submitting the form, you will receive an e-mail confirming your reservation.



block of rooms has been set aside for attendees at the NIST rate of \$104/day single or double.

Holiday Inn Gaithersburg

Two Montgomery Village Avenue Gaithersburg, Maryland 20879

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Toll Free: 1-800-HOLIDAY www.higaithersburg.com

IST is located approximately 1 mile west of the Gaithersburg Holiday Inn just off Interstate Route 270, about 25 miles (40 kilometers) from the center of Washington, D.C. If you wish to use an Internet map service to locate the NIST campus, you might need the street address of NIST:

National Institute of Standards and Technology 100 Bureau Drive Gaithersburg, MD 20899